

NOTES ON THE GENUS *PELARGONIUM* (FAM. GERANIACEAE)

E. M. MARAIS, P. VORSTER and J. J. A. VAN DER WALT

(Department of Botany, University of Stellenbosch)

ABSTRACT

1. The new name *Pelargonium ellaphieae* E. M. Marais is designated for *P. marginatum* Knuth (1912), non (Cav.) Link (1822). 2. *P. ovato-stipulatum* Knuth is reduced to subspecific rank as *P. stipulaceum* subsp. *ovato-stipulatum* (Knuth) Vorster, comb. & stat. nov. 3. It is shown that *P. paniculatum* Jacq. which was previously typified by an illustration, can be typified by a specimen annotated by Jacquin. 4. The name *P. eberlanzii* has been applied independently to two different species. *P. eberlanzii* Dinter is a synonym of *P. sibthorpiifolium* Harv. of the section *Cortusina*, while *P. eberlanzii* Knuth belongs to the section *Otidia*. 5. The correct author citation for *P. antidysentericum* is (Eckl. & Zeyh.) Kostel. (1836) and not (Eckl. & Zeyh.) Harv. (1860).

UITTREKSEL

NOTAS OOR DIE GENUS *PELARGONIUM* (FAM. GERANIACEAE)

1. Die nuwe naam *Pelargonium ellaphieae* E. M. Marais word gegee aan *P. marginatum* Knuth (1912), non (Cav.) Link (1822). 2. *P. ovato-stipulatum* Knuth word 'n subspe-sie van *P. stipulaceum* (L.f.) Willd as *P. stipulaceum* subsp. *ovato-stipulatum* (Knuth) Vorster, comb. & stat. nov. 3. Daar word aangedui dat *P. paniculatum* Jacq. wat voorheen tipifiseer was deur 'n illustrasie, tipifiseer kan word deur 'n eksemplaar wat deur Jacquin annoteer is. 4. Die naam *P. eberlanzii* is in die verlede onafhanklik van mekaar toegepas op twee verskillende spesies. *P. eberlanzii* Dinter is 'n sinoniem van *P. sibthorpiifolium* Harv. van die seksie *Cortusina*, terwyl *P. eberlanzii* Knuth in die seksie *Otidia* hoort. 5. Die korrekte outeursituasie vir *P. antidysentericum* is (Eckl. & Zeyh.) Kostel. (1836) en nie (Eckl. & Zeyh.) Harv. (1860) nie.

VALIDITY OF THE NAME *PELARGONIUM MARGINATUM* KNUTH

The name *Pelargonium marginatum* (Cav.) Link (1822), based on *Geranium marginatum* Cav. [Diss. 4: 230 (1787)], was originally applied to a horticultural hybrid which probably involved *P. zonale* (L.) L' Hér. Knuth's use in 1912 of the name *P. marginatum* for a new species in the section *Seymouria* is therefore illegitimate. As no alternative name is available for the latter species, the following new name is chosen in honour of Mrs. Ellaphie Ward-Hilhorst, botanical artist dedicated to portraying all the natural species of *Pelargonium* in water colour:

***Pelargonium ellaphieae* E. M. Marais, nom. nov.**

P. marginatum Knuth in Pflanzenr. 4, 129: 351 (1912); non (Cav.) Link. Enum. Hort. Berol. 2: 189 (1822).

Accepted for publication 5th March, 1981.

Type: CAPE—"Am Fusse des Muizenberg," Bolus 8054 (Z., lecto., here selected!; BOL!, GRA!, K!, NH!, PRE!).

AFFINITIES OF *P. OVATO-STIPULATUM* KNUTH

P. ovato-stipulatum Knuth is morphologically similar to *P. stipulaceum* (L.f.) Willd., except for the persistent stipules which are considerably larger, ovate instead of triangular, and almost completely glabrous with more sparsely spaced glandular hairs compared to *P. stipulaceum*. In our opinion these differences do not warrant specific distinction, and as the name *P. stipulaceum* is the oldest, that is the correct name to apply. Nevertheless the two former species are easy to distinguish from each other on account of the morphology of the stipules, and as the two variants are geographically separated (Fig. 1), genetic isolation from each other is implied. For these reasons the relationship between them is considered to be subspecific, and accordingly the following new combination is made:

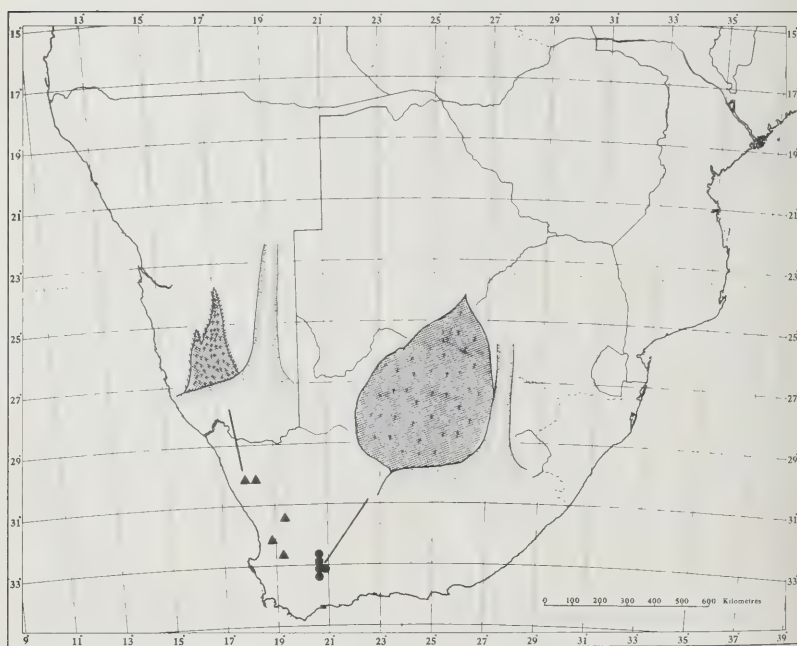


FIG. 1.

Pelargonium stipulaceum: known geographical distribution and shape of the stipules of the subsp. *stipulaceum* (▲) and *ovato-stipulatum* (●).

Pelargonium stipulaceum (L.f.) Willd. subsp. ***ovato-stipulatum*** (Knuth) Vorster, comb. & stat. nov.

P. ovato-stipulatum Knuth in Pflanzenr. **4**, 129: 379, fig. 50B (1912). Type: CAPE—" . . . bei Matjesfontein . . . ", MacOwan 1808 (G!, K!, SAM!, Z!).

subsp. ***ovato-stipulatum***

REPRESENTATIVE SPECIMENS

CAPE—3220 Sutherland: Verlatenkloof (-DA), Marloth 9624 (BOL!, PRE!); Sutherland: 47 miles south of (-DC), Leighton 3185 (BOL!).

— 3320: Matjesfontein (-BA), MacOwan 1808 (G!, K!, SAM!, Z!); type of *P. ovato-stipulatum* Knuth), Moffett 823 in STE-U 454 (STE-U!), Van der Walt 814 in STE-U 1621 (STE-U!); Whitehill (-BA), Barker 4872 (BOL!), Compton 3032 (BOL!), Leighton 255 (BOL!); Laingsburg (-BB), Van der Walt 807 in STE-U 1600 (STE-U!); Matjesfontein: foot of Witteberge (-BC), Marloth 11432 (PRE!).

subsp. ***stipulaceum***

REPRESENTATIVE SPECIMENS

CAPE—3017: Kamieskroon (-BB), Esterhuysen 23606 (BOL, 2 sheets!; PRE!).

— 3018: Kamiesberge: Leliefontein (-AB), Drège 3234 (PRE!); Leipoldt 3214 (BOL!).

—3119 Calvinia: Driefontein (-AD), Acocks 18617 (PRE!).

—3218: Clanwilliam (-BB), H. Bolus 8948 (BOL!).

—3219: between Grootrivier and Voëlfontein on road between Algeria Forestry Station and Ceres (-CB), Hugo 737 (PRE!, STE!).

TYPEFICTION OF *PELARGONIUM PANICULATUM* JACQ.

When re-instating *P. paniculatum* Jacq. after it had been regarded as a synonym of *P. crithmifolium* J.E. Sm. for almost 160 years. Merxmüller in Mitt. bot. StSamml., Münch **5**: 240–241 (1964) designated the illustration which accompanied Jacquin's original description (Jacq., Hort. Schoenbr. **2**: 6, t. 137 (1797)) as iconotype, since he was unable to trace any herbarium specimens suitable for lectotypification either in Jacquin's collection in W or elsewhere. It appears however that Merxmüller had overlooked the presence of a specimen of this species in W which has the name written on in Jacquin's own handwriting. While there is no proof that this specimen was not added after the publication of Hort. Schoenbr., we nevertheless consider this specimen to be a strong contender for a lectotype. Accordingly we here designate this specimen, without collector or number, as the lectotype of *Pelargonium paniculatum*, and we have labelled the specimen as such.

IDENTITY OF *P. EBERLANZII*

The name *P. eberlanzii* has been applied to two different species. The first occasion was in 1923 by Dinter (in *Reprim nov. Spec. Regni veg. (Beih.)* 23: 43). The description is rather informal and somewhat hidden in the text of the article, but it is nevertheless quite clear. Dinter neither cited specimens nor designated a type, but mentioned that the name commemorated the discoverer of the plant, Eberlanz. We traced specimens received by Dinter from Eberlanz and numbered *Dinter 3834* in BOL and PRE which match the description and are determined as *P. eberlanzii* in Dinter's handwriting. We consider these to be the type specimens of *P. eberlanzii* Dinter. Although Dinter assigned the species to the section *Hoarea*, these specimens match the species correctly known as *P. sibthorpiiifolium* Harv. of the section *Cortusina*.

In 1933 Knuth (in *Reprim nov. Spec. Regni veg.* 34: 147) described as new *P. eberlanzii* from specimens collected by Eberlanz and cultivated in the Botanical Garden in Berlin. No preserved specimens could be traced, but from the description it is clear that Knuth correctly assigned the species to the section *Otidia*. *P. eberlanzii* Knuth was stated to be closely related to *P. ferulaceum* (Burm. f.) Willd., which in turn appears to be part of the conglomeration of taxa which conveniently are being grouped together under the name *P. carnosum* (L.) L' Hérít.

Thus, *Pelargonium eberlanzii* Dinter is placed in synonymy under *P. sibthorpiiifolium* Harv., while *P. eberlanzii* Knuth, which is in any case an illegitimate later homonym, is reduced to synonymy under *P. carnosum* (L.) L' Hérít.

CORRECT AUTHOR CITATION FOR *P. ANTIDYSENTERICUM*

In the latest taxonomic treatment of *Pelargonium*, that by Knuth in *Pflanzenr.* 4, 129 (1912), the authority for *P. antidysentericum* is cited (p. 391) as (Eckl. & Zeyh.) Harv. [in *Fl. Cap.* 1: 286 (1860)]. The epithet *antidysentericum* has however been transferred earlier to the genus *Pelargonium* by Kosteletsky, and therefore the correct citation is:

Pelargonium antidysentericum (Eckl. & Zeyh.) Kostel., *Allg. Med.-Pharm. Flora* 5: 1896 (1836).